

Total No. of Questions : 6

Total No. of Printed Pages : 4

EI-182**B.E. (Illrd Sem.) (CGPA) Civil Engg. Exam.-2015****ENVIRONMENTAL ENGINEERING-I****Paper : CE-301*****Time Allowed : Three Hours******Maximum Marks : 60*****Note :** Attempt all questions.

.. All questions carrying equal marks.

All parts of a question should be answered at one place.

Q.1 Choose the correct answer— 2 each

(i) Acid rain is formed due to contribution from the following pair of gases—

- (a) Methane and Ozone ✓
- ~~(b)~~ Oxygen and nitrousoxide ✓
- (c) Methane and sulphur dioxide
- (d) Carbondioxide and sulphur dioxide

(2)

- (ii) Eutrophication of water bodies is caused by—
- (a) Discharge of toxic substances
 - ☒ (b) Excessive discharge of nutrients ✓
 - (c) Excessive discharge of suspended solids
 - (d) Excessive discharge of chlorides
- (iii) Concentration of SO_x in atmosphere can be controlled by—
- (a) Desulphurization
 - (b) Use of low sulphur fuel
 - ☒ (c) Substitution by alternative fuels ✓
 - ☒ (d) All of the above ✓
- (iv) According to WHO, the highest noise which a human can hear with discomfort is—
- (a) 40 dB
 - (b) 60dB
 - ☒ (c) 80dB ✓
 - (d) 100dB
- (v) Maintenance of harmonious relationship between human beings and environment is the objective of—
- ☒ (a) EIA ✓
 - (b) EPA ✓
 - (c) PLCA
 - ☒ (d) DFE ✓

(3)

Q.II What is soil ? How soil formation takes place ? What is soil profile ? Write importance of soil to biosphere. 10

or

Write short note on any two of the following—2x 5

- (a) Biodiversity
- (b) Global warming
- (c) EL-nino phenomenon

Q.III What are the objectives of secondary waste water treatment ? Describe tricking filtration process for waste water treatment. 10

or

Write short note on any two of the following— 2x5

- (a) DO
- (b) Activated sludge process
- (c) Algal bloom

Q.IV Discuss the pollution caused by oxides of nitrogen and sulphur. 10

or

Discuss the effects of air pollution on— 10

- (a) Human health
- (b) Animals
- (c) Plants
- (d) Materials
- (e) Climate

(4)

UITians

- Q.V Discuss the impact of noise pollution on biotic and abiotic components. 10

or

Write short notes on any two of the following—2x5

- (a) Thermal waste
- (b) Disposal of solid waste
- (c) Agricultural waste

- Q.VI Define ethics. Explain the importance of ethics in society. Discuss various ethical situations 10

or

Write short note on any two of the following— 2x5

- (a) Goals of EIA
- (b) EPA
- (c) RA
